RUSHIKESH PATIL

Mechanical Engineer

321 5TH STREET APT 3, UNION CITY, NJ

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CAREER SUMMARY

- Highly skilled **NYC MEP Design** experience along with Master's degree in Mechanical Engineering.
- Experienced in using **REVIT & AutoCAD MEP**.
- Projects completed from Schematics to Construction Administration involving: **VRF systems, Hydronic systems**
- Thorough knowledge of **NYC Building code, Mechanical Code, Fuel Gas code and NYCECC.**
- **Deep understanding of fundamentals**: Psychrometric charts, Fan/pump curves, Thermodynamics.

PROFESSIONAL EXPERIENCE

Mechanical Engineer | AMA Consulting Engineers, NY | OCTOBER 2019 – PRESENT

- Types of projects – Restaurants, Office spaces and Retail fitouts.
- Worked on projects with hydronic systems from inception to complete construction documents & CA. Edited book/CAD specifications; collaborated with electrical team to produce a well-coordinated set.
- Code compliance from the start of the project and changing the design to client's need is a core responsibility of the job. Earned Immense experience in making site visits more efficient with tools such as PlanGrid.

Mechanical Engineer | GEA Consulting Engineers, NY | JULY 2018 – OCTOBER 2019

- Types of projects – High rise Residential, Restaurants, church.
- Coordinated with architect and other in-house trades. Developed deep understanding of NYC Mechanical code while learning working of VRF and hydronic systems.
- Meticulously reviewing Shop drawings, Submittals and Responding to RFIs.
- Used Trace for load calculations and AutoCAD and REVIT for drafting.

MEP Design Engineer | LL Engineering P.C, NY | MAY 2018 – JULY 2018

- Worked on Mechanical (HVAC), Electrical and Plumbing design for Commercial and Residential buildings.
- Independently took HVAC projects from setting up xref to submitting the final draft with equipment schedule, Detailed drawings and Mechanical Details.

ACADEMIC PROJECTS

Design of HVAC System

- Heating and cooling load calculations for a four-story building. Performed calculations were then verified using trace software. Selection of boilers and water source heat pumps was based on the load calculations. Commissioning and the required control plan were specified.
- Achieved the most efficient design by altering layout of pipes connecting to WSHP.

Design of Sprinkler System

- Achieved most reliable design of sprinkler system by implementing NFPA standards for a 9-story building.
- Extensive use of HASS software typically used to design sprinklers. Riser diagram and floor plans were drawn to showcase the final footprint of the design.

EDUCATION

Master's in Mechanical Engineering | New York University | MAY 2018 | GPA – 3.63

- Courses: Heat transfer for HVAC, Design of HVAC, Thermal Engineering, Fluid mechanics for HVAC, Linear control systems.

Bachelor's in Mechanical Engineering | University of Pune | MAY 2016 | GPA – 3.50

- Courses: Machine design, Thermodynamics, Strength of Materials, Heat transfer, Robotics, Advanced CAD.

TECHNICAL SKILLS

REVIT | RF TOOLS | AUTOCAD MEP | AUTOCAD | NYC BUILDING CODE | TRACE 700 | IES | COMCHEK